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Tashkent, Pravda Vostoka, 15 Aug 50

The Tallin Il'marin Plant has recently produced dozens of diverse items of new type, including streetcars, peat-cutting machines, and machines for making mineral fertilizer.

The first model of a ditch digger was assembled ahead of schedule. This new machine will replace 50 workers.

NEW PEAT AGGREGATE GOES TO WORK -- Vil'nyus Sovetskaya Litva, 20 Aug 50

The powerful new TEMP-2 extraction aggregate, made by the Ivanovo Peat Machinery Plant, has been put into operation at the Bachunay Peat Enterprise of the Ministry of Electric Power Stations. The machine's productivity is rated at 20,000 tons per season.

NEW MACHINE QUARRIES STANDARD-SIZE BLOCKS -- Moscow, Mekhanizatsiya Stroitel'stva, No 5, May 50

To supplement the materials used in building -- bricks, cinder blocks, ceramic blocks, light cement blocks -- the quarrying of building stone is continually growing.

Extraction of building stone is carried on almost exclusively by hand, which means that blocks are quarried in unequal sizes. Under existing norms, it takes 5.22 man-days to quarry one cubic meter of limestone.

The increased demand for natural building material calls for a program of development of mechanized quarrying. All existing machines -- the Petrik, Stolyarov, Abramov, and Zil'berglit models -- have not been able to effect complete mechanization of quarrying under all conditions.

The Galanin stone-cutting machine is designed to cut blocks of standardized dimensions directly from the quarry face, in a closed drift. Cutters of other design can work in open quarries only.

The Galanin machine cuts the rock first horizontally, then vertically, in three equally spaced lines, at right angles to the face. Then it cuts the blocks off from the face, using a cutter moving parallel to it. The machine can work a deposit to the full height of the seam, and cut from a vertical strata of only one block's width along the entire transverse section. Cutting waste and breakage do not exceed 26 percent of the total extraction.

The machine is designed to cut blocks of 29 x 24 x 19 centimeters (GOST 4001-48).

The machine is mounted on a frame, which runs on rails along the face of the quarry. A carriage moves up and down along four vertical tubular supports rising from the base of the frame. On an arm projecting from this carriage, the three disks, which can be turned for vertical or horizontal cutting, are mounted, while the single disk, for parallel cutting, can be mounted on it after the other three have been removed. The machine is powered by two electric motors; one, of 10 kilowatts' capacity, to power the three-saw aggregate, the other of 2.8 kilowatt's capacity for the single saw.

In December 1949, the Ministry of Transportation tested two experimental models of the machine; one was made in a plant of the Tsuvostroymekhanizatsiya Trust, of the Main Administration of Railroad Construction of the West; the other, in the Tiraspol Plant imeni S. M. Kirov.

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Both models were tested in a coquina quarry, working on a face 2.30 meters high and 7.0 meters wide. The following rates of production were attained:

Vertical cutting (cu m/min)	1.56
Horizontal cutting (cu m/min)	1.03
Parallel cutting-off from behind (cu m/min)	0.54

The average productivity amounted to 500 blocks, or 11 cubic meters of stone, during an 8-hour shift.

One machine replaces the labor of 50 skilled stone cutters; it can be operated by two workers.

PEAT-EXTRACTION MACHINE BUILDERS CALL FOR ENGINEERS, MACHINISTS -- Minsk, Sovetskaya Belorussiya, 16 Jul 50

The Zhodino Torfmash Plant needs the following personnel: a head book-keeper, designers and technicians, a chief designer and chief technician, a director of the machine shop, a chief mechanic, machinists, mechanics, drill operators, heat-treatment workers, and a machinist-secretary. -- Advertisement

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